

h

Notice of Allowability	Application No.	Applicant(s)	
	10/634,479	COX ET AL.	
	Examiner	Art Unit	
	Melissa Austin	1745	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/31/05.
2. ☒ The allowed claim(s) is/are 1,3-9,11-19 and 21-23.
3. ☒ The drawings filed on 31 January 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|---|--|

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Scott Applebaum on 24 March 2005.

The application has been amended as follows:

In the claims, amend claims 1, 8, and 9 as follows

1. A battery mounting for detachable placement in a device, the battery mounting comprising:

a housing for at least one battery cell;

a clip having a cammed surface for providing cooperation between the housing
and a portion of the device;

a lock for applying a force to the clip for locking the battery mounting in place
in the device; wherein the lock comprises one of a screw and a clamp applied to the clip; and

at least one power contact for connecting the at least one battery cell to the
device; wherein the lock provides a load in the engaging direction of the at least one
power contact.

8. A battery mounting as claimed in claim 7, wherein the logic device comprises a printed circuit board
containing data about the at least one battery cell.

Art Unit: 1745

9. A device with a detachable battery mounting, the device comprising:

a board with an opening in which the battery mounting is detachably mounted;

at least one power contact disposed on the cross-section of the board within the opening; and

the battery mounting comprising:

a housing for at least one battery cell;

a clip having a cammed surface for providing cooperation between the housing and a portion of the board;

a lock applying a force to the clip for locking the battery mounting in place in the opening; wherein the lock comprises one of a screw and a clamp applied to the clip; and

at least one power contact connecting the at least one battery cell to the at least one power contact on the board; wherein the lock provides a load in the engaging direction of the at least one power contact.

Cancel claims 2, 10, 20, and 24-30 without prejudice.

Art Unit: 1745

2. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or suggest a battery mounting for detachable mounting in a device with a lock, in the form of a screw or clamp, for applying force to the clip and providing a load in the engaging direction of the power contacts. Andrews (5,573,870) teaches a removable battery pack made of plastic containing a number of batteries (Col. 1, 11. 13-14, Col. 2, 1. 37), a flexible cantilevered tab with a downward protruding detent (Col. 1, 11. 55-58), and electrical connectors from the batteries to the battery pocket (built into the electrical device or a separate unit) (Col. 1, 11. 16, 39-52). The detent fits into a slot on the battery pocket which locks the battery pack from forward and rearward longitudinal movement (Col. 5, 11. 52-54). This detent/slot lock limits movement in the direction of the electrical connectors (Figures 5, 9). When the clip is engaged with the detent, the "front wall" (the side of the 'v' shaped detent that is not visible in Figure 9) detent provides a force (load) in the direction of the electrical contacts. However, Andrews does not disclose a screw or clamp for applying force to the load.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa Austin whose telephone number is (571) 272-1247. The examiner can normally be reached on Monday - Thursday, alt. Friday, 7:15 AM - 4:15 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1745

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


PATRICK JOSEPH RYAN
SUPERVISORY PATENT EXAMINER

mja

Melissa Austin
Patent Examiner
Art Unit 1745